# MINISPHERE™ 3.1

User Manual
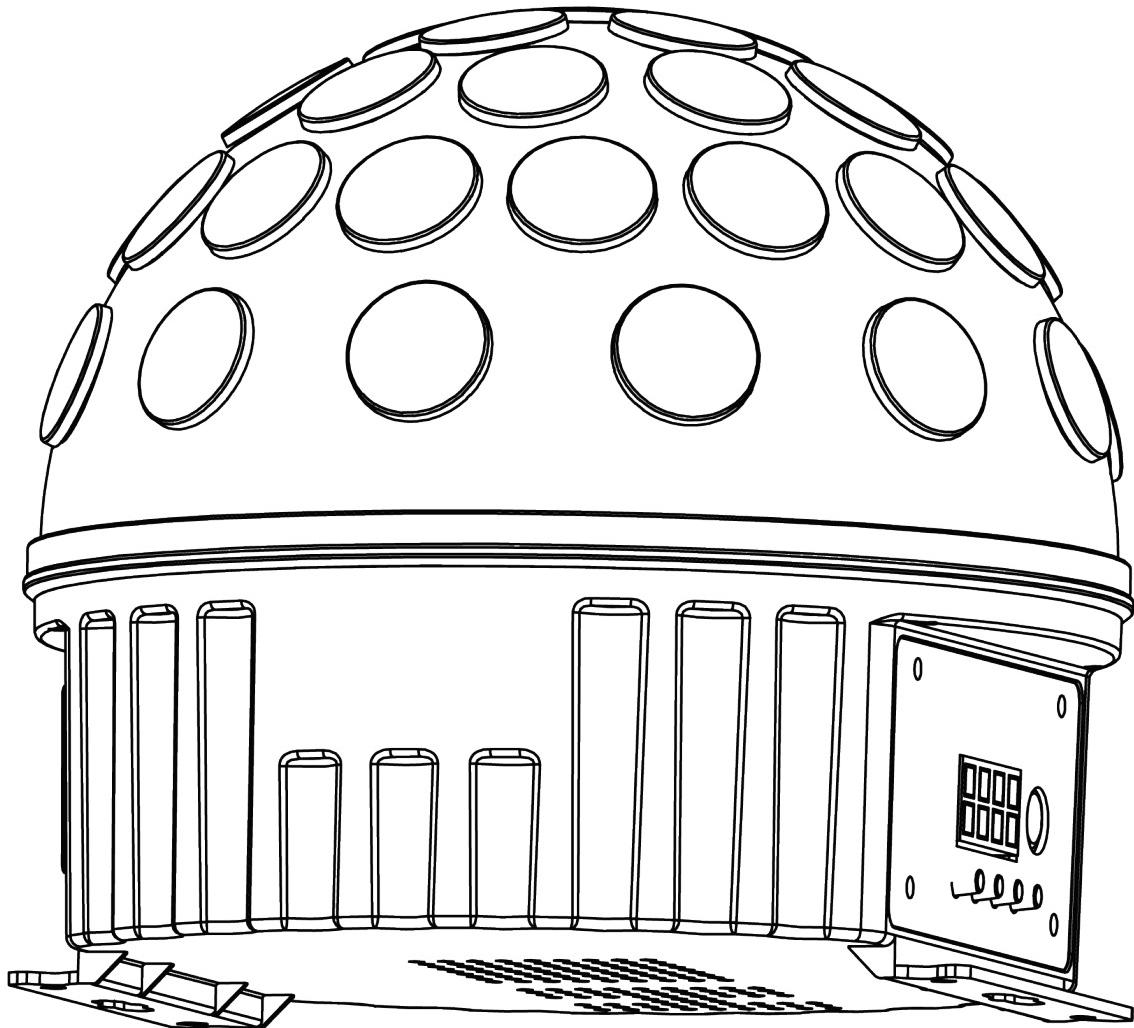
CHAUVET®

Value · Innovation · Performance

It's Green Thinking.

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1. BEFORE YOU BEGIN

What Is Included
- Minisphere™ 3.1
- Power Cord
- Warranty Card
- Quick Reference Guide

Unpacking Instructions
Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

Claims
If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Text Conventions

Convention	Meaning
1~512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
Menu > Settings	A sequence of menu options to be followed
<ENTER>	A key to be pressed on the product's control panel
ON	A value to be entered or selected

Symbols

Symbol	Meaning
⚠	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
ⓘ	Important installation or configuration information. The product may not function correctly if this information is not used.
📝	Useful information.

Disclaimer
The information and specifications contained in this User Manual are subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions, and reserves the right to revise or recreate this manual at any time. Download the latest version from www.chauvetlighting.com.

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Author	Date
S. Diaz	12/13/12

Product at a Glance

Use on Dimmer	🚫	Auto Programs	✓
Outdoor Use	🚫	Auto-ranging Power Supply	✓
Sound Activated	✓	Replaceable Fuse Circuit breaker	✓
DMX	✓	User Serviceable	🚫
Master/Slave	✓	Duty Cycle	🚫

Safety Notes

These notes include important information about the mounting, usage, and maintenance of this product; read before using the product.

⚠️

- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Avoid direct eye exposure to the light source while the product is on.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.
- Do not touch the product's housing when operating because it may be very hot.

ⓘ

- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never connect the product to a dimmer.
- Make sure to replace the fuse with another of the same type and rating.
- Never carry the product from the power cord or any moving part. Always use the base or mounting brackets.
- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Contact the nearest authorized technical assistance center.
- This product is not intended for permanent installation.

📝

- Keep this User Manual for future use. If you sell the product to another user, be sure to give this document to the next owner.

2. INTRODUCTION

Overview

Fuse Holder

100-240VAC 50-60Hz

DMX IN DMX OUT POWER IN

Back Panel View

Menu Display

MENU UP DOWN ENTER
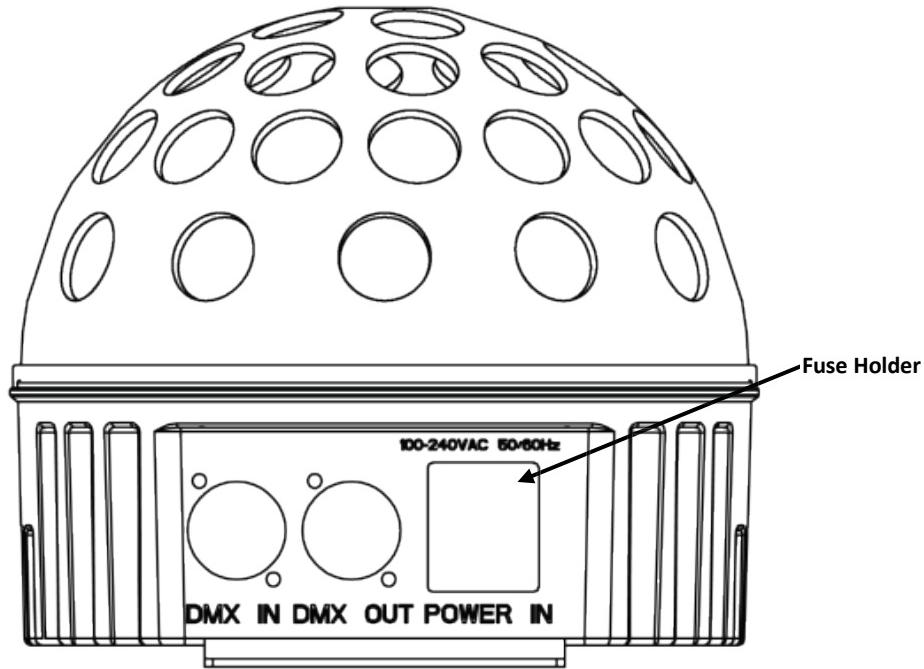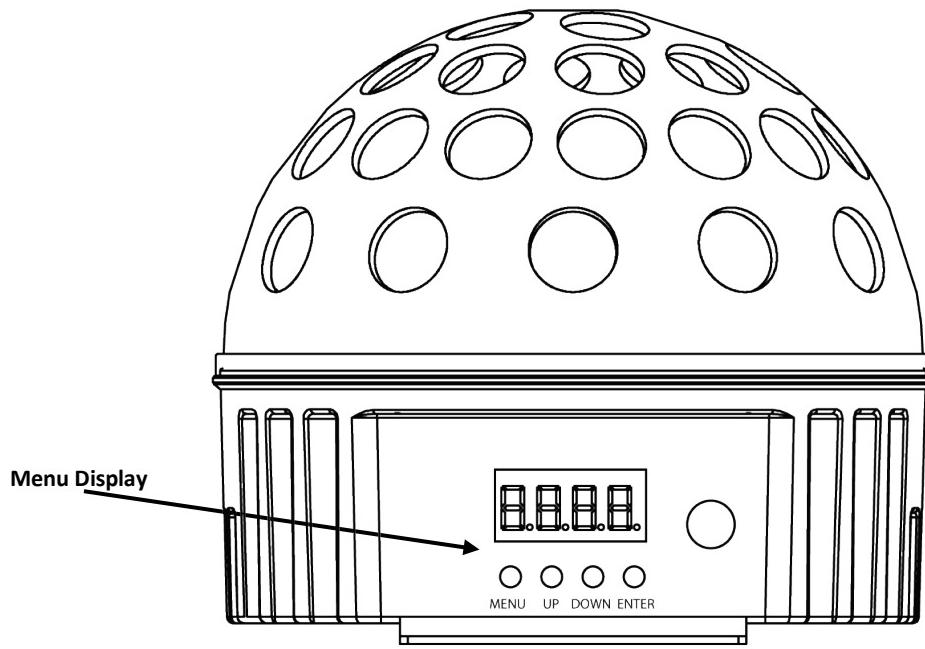
Front Panel View

Dimensions

7.2 in
182 mm

6.3 in
160 mm

100-240VAC 50/60Hz

DMX IN   DMX OUT   POWER IN
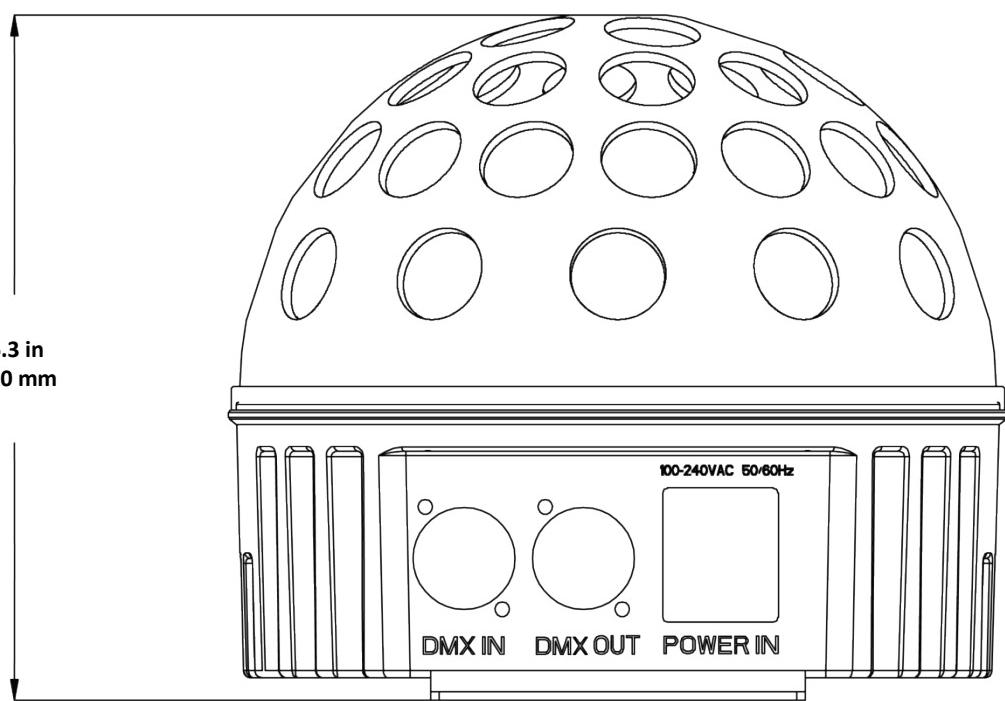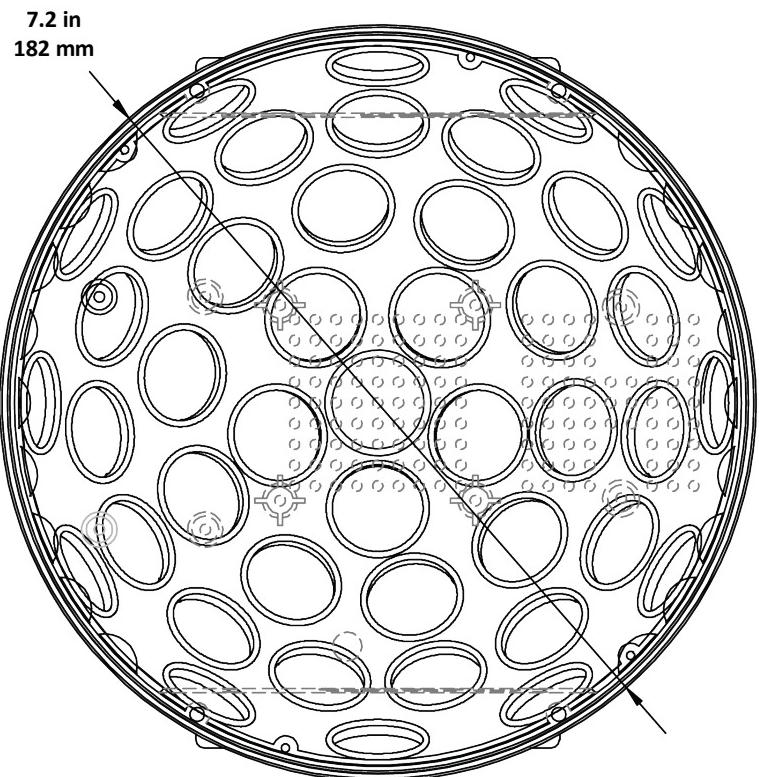
3. SETUP

AC Power The Minisphere™ 3.1 has an auto-ranging power supply and it can work with an input voltage range of 100~240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0~100% switch.

Fuse Replacement

Disconnect the product from power before replacing the fuse.

1. Disconnect the product from power.
2. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder.
3. Pry the fuse holder out of the housing.
4. Remove the blown fuse from the holder.
5. Replace with a fuse of the exact same type and rating.
6. Insert the fuse holder back in place and reconnect power.
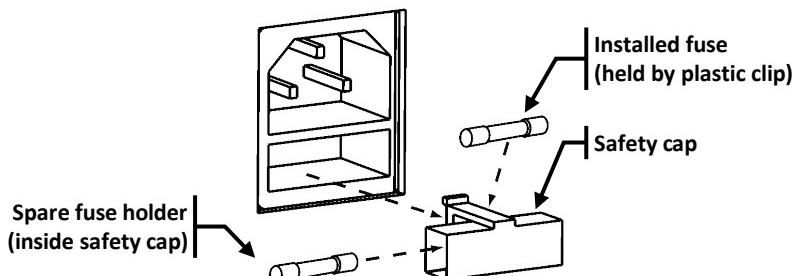
A spare fuse is not included; however, the safety cap has room for a spare.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation

The Minisphere™ 3.1 may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging

- Before deciding on a location, always make sure there is easy access to the product for maintenance and programming.
- Make sure that the structure or surface onto which you are mounting the product can support the product's weight (see the Technical Specifications).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, such as an elevated platform or a truss.
- When rigging the product onto a truss, you should use a mounting clamp of appropriate weight capacity.

Mounting Diagram

Mounting Brackets
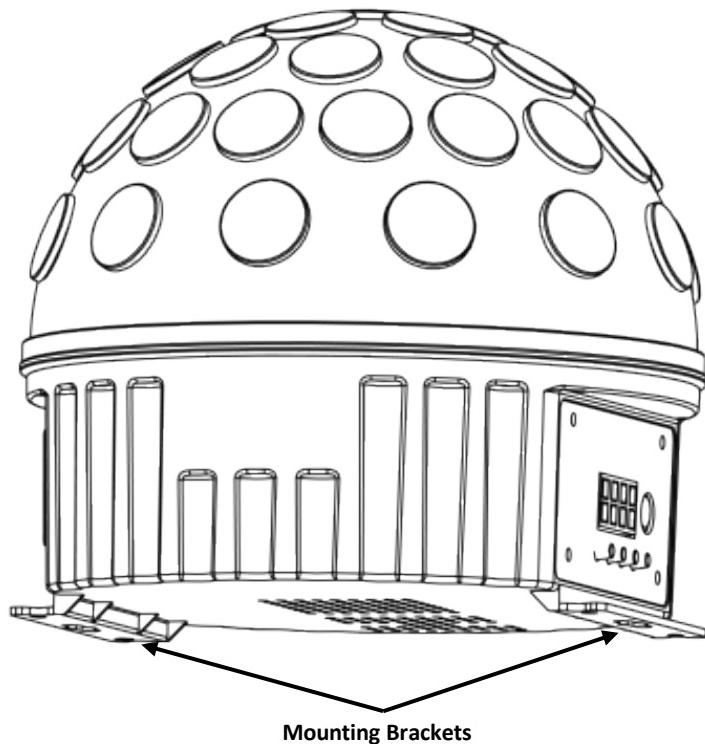
4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display.

Button	Function
<MENU>	Selects an operation mode or to backs out of the current menu option
<UP>	Scrolls up the list of options or selects a higher value
<DOWN>	Scrolls down the list of options or selects a lower value
<ENTER>	Activates a menu option or a selected value

Menu Map

Mode	Programming Steps		Description
DMX Mode	**512**	**d 1–d512**	Selects the DMX starting address
Auto Programs	**P--**	**P1–P9**	Selects automatic program
Auto Program Speed	**S--**	**S 1–S100**	Sets automatic-program speed
Sound-Active	**SNd**		Starts sound-activated programs

Configuration (DMX)

Set the product in DMX mode to control with a DMX controller.
1. Connect the product to a suitable power outlet.
2. Turn the product on.
3. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

Starting Address

When selecting a starting DMX address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The Minisphere™ 3.1 uses up to 6 DMX channels in its single DMX mode, which defines the highest configurable address to **507**.

If unfamiliar with DMX or DIP switches, download the DMX Primer from www.chauvetlighting.com.

To select the starting address, do the following:
1. Press **<MENU>** repeatedly until **512** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select the starting address (**d 1–d512**).
4. Press **<ENTER>**.

DMX Channel Mode, Assignments, and Values

6-Channel

Channel	Function	Value	Setting
1	**Red**	000 ⇔ 255	0–100%
2	**Green**	000 ⇔ 255	0–100%
3	**Blue**	000 ⇔ 255	0–100%
4	**Automatic Programs**	000 ⇔ 039 040 ⇔ 079 080 ⇔ 119 120 ⇔ 159 160 ⇔ 199 200 ⇔ 255	No function 3-Color switching 7-Color switching 3-Color fade 7-Color switching, clockwise and counterclockwise rotation
5	**Motor Rotation**	000 ⇔ 009 010 ⇔ 255	No function 0–100%
6	**Strobe**	010 ⇔ 255	1~30 Hz

Configuration (Standalone)

Set the product in one of the standalone modes to control without a DMX controller.
1. Connect the product to a suitable power outlet.
2. Turn the product on.

Never connect a product that is operating in any standalone mode (either Static, Automatic, or Sound) to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Sound-Active Mode

To enable the Sound-Active mode, do the following:
1. Press **<MENU** repeatedly until **SNd** shows on the display.
2. Press **<ENTER>**.

The product will only respond to low frequencies of music (bass and drums).

Automatic Programs

To enable the automatic programs, follow the instructions below:
1. Press **<MENU>** repeatedly until P**--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** select an automatic program from **P 1–P 9**.
4. Press **<MENU>** until **S--** shows on the display.
5. Press **<UP>** or **<DOWN>** to adjust the speed of the automatic programs (**S 1–S100**).
6. Press **<ENTER>**.

Master/Slave Mode

The Master/Slave mode allows a single Minisphere™ 3.1 unit (the "master") to control the actions of one or more Minisphere™ 3.1 units (the "slaves") without the need of a DMX controller. The master unit will be set to operate in either Automatic or Sound Active mode, while the slave units will be set to operate in Slave Mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

1. Press **<MENU>** repeatedly until **512** shows on the display.
2. Press **<ENTER>** to accept.
3. Set the **DMX address** to **d 1**.
4. Connect the DMX input of the first slave unit to the DMX output of the master unit.
5. Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
6. Finish setting and connecting all the slave units.

Master unit:

1. Set the master unit to operate in either Automatic or Sound mode.
2. Make the master unit the first unit in the DMX daisy chain.

- **Configure all the slave units before connecting the master unit to the DMX daisy chain.**
- **Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master unit.**
- **Do not connect more than 31 slave units to the master unit.**

5. TECHNICAL INFORMATION

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and mechanical wear. To maintain optimum performance and minimize wear, clean the product at least twice a month. However, usage and environmental conditions contribute to increased cleaning frequency.

To clean the product, follow the instructions below:

- Unplug the product from power.
- Wait until the product is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
- Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Softly wipe any dirt or grime to the outside edges of the transparent surface.
- Gently polish the transparent surfaces until they are free of haze and lint.

Always dry the external optics and transparent surfaces carefully after cleaning them.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

Length	Width	Height	Weight
7.2 in (182 mm)	7.2 in (182 mm)	6.3 in (160 mm)	1.5 lbs (0.7 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	43 W	46 W
Operating/Inrush current	0.3 A/0.3 A	0.2 A/0.2 A
Fuse/Breaker	F1 A, 250 V	F1 A, 250 V

Power I/O	U.S./Worldwide	UK/Europe
Power input connector	Neutrik® powerCON® A/IEC	Neutrik® powerCON® A/IEC
Power Cord plug	Edison (U.S.)	Local plug

Light Source

Type	Power	Lifespan
LED	3 W	50,000 hours

Color	Quantity	Current
Red	1	800 mA
Green	1	800 mA
Blue	1	800 mA

Photo Optic

Parameter	Value
Coverage angle	360°

Thermal

Maximum External Temp.	Cooling System
104° F (40° C)	Convection

DMX

I/O Connectors	Connector Type	Channel Range
3-pin XLR	Sockets	6

Ordering

Product Name	Item Code	Item Number
Minisphere 3.1	03050549	MINISPHERE3.1
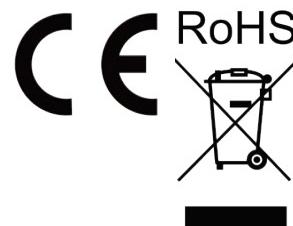
To return a product or request support:

- In the U.S., contact CHAUVET® World Headquarters (see below).
- In the UK or Ireland, contact CHAUVET® Europe Ltd. (see below).
- In any other country, DO NOT contact CHAUVET®. Contact your distributor. See www.chauvetlighting.com for distributors outside the U.S., United Kingdom, or Ireland.

If you live outside the U.S., United Kingdom, or Ireland, contact your distributor of record and follow their instructions on how to return CHAUVET® products to them. Visit our website for contact details.

Returns

Call the corresponding CHAUVET® Technical Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

You must send the merchandise prepaid, in its original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Clearly label the package with the RMA number. CHAUVET® will refuse any product returned without an RMA number.

Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Contact Us

World Headquarters
CHAUVET®
General Information
Address: 5200 NW 108th Avenue
               Sunrise, FL 33351
Voice: (954) 577-4455
Fax: (954) 929-5560
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